

# FLIGHTMATIC, INC.

Aviation training devices

**F206  
FLIGHT  
SIMULATOR**

**Cessna 150**

## VISTA SERIES GENERAL AVIATION VISUAL AND INSTRUMENT FLIGHT SIMULATOR

### DESCRIPTION

The F206 is a low cost, full flight simulator with the appearance and flight characteristics of a Cessna 150. It can be used to teach all primary flight maneuvers and instrument procedures. Training can be done in simulated VFR or IFR conditions with all the instruments and controls functioning realistically. *Flight* in the F206 requires the development of the same skills and techniques required for visual and instrument aircraft operation.

### FEATURES

- Panoramic projection
- Primary flight, ground reference, full instruments
- Emergency procedure training
- Fully automatic solo flight
- Solid state reliability
- 100% FAR 141 approved
- VFR and IFR flight in day or night conditions
- Automatic pen recorder
- Interior IFR plotting chart with aircraft position indicator showing position, heading and track



### OPERATIONAL CONTROLS

Control Yoke	Master Switch
Elevator Trim	Ignition Switch
Rudder Pedals	Starter Switch (Ign.)
Parking Brake	Throttle Control
Flap Control (Sw.)	Mixture Control
Flap Position Indicator	Stall Warner
Carburetor Heat Control	

### EQUIPMENT CONTROLS

Position Light Switch	Engine Sound—
Attitude Display Switch	Off/On/Volume
Chart Drive Switch	Key Switch & Indicator Light

### STANDARD INSTRUMENTS AND AVIONICS

#### ENGINE

Hobbs Meter  
Tachometer  
Fuel Quantity Indicator (2)  
Suction Indicator  
Oil Temperature Indicator  
Oil Pressure Indicator

#### FLIGHT

Attitude-Gyro Indicator  
Directional-Gyro Indicator  
Altimeter  
Vertical Speed Indicator  
Airspeed Indicator  
Turn Coordinator  
Compass  
Aircraft Clock

#### AVIONICS

ADF Bearing Indicator  
ADF-RMI Ind. (Optional)  
VOR/ILS Indicator  
VOR Bearing Indicator  
NAV/COM Radio No. 1  
NAV/COM Radio No. 2  
ATC Transponder  
DME Miles Indicator  
MKR BCN —Off/On/Volume  
MKR BCN Indicators

#### INSTRUCTOR CONTROLS

Wind Velocity Control  
Wind Direction Control  
Fuel Quantity Control

#### Failures:

Gyro Suction Fail  
Oil Temp./Pressure Fail  
Engine Fail  
VOR/LOC Fail  
DME Fail  
ADF Fail  
MKR BCN Fail

## VFR (BASIC VISUAL FLIGHT)

VISTA simulators, for the first time, bring the realism of panoramic projection into general aviation flight training. A special visual flight projector reacts precisely and realistically to aircraft controls. Your students can duplicate and practice every VFR flight maneuver . . . climbs, descents, glides, rectangles, turns and stalls . . . all with true reference to ground. A flight pattern reference chart can be placed in front of the student, showing traffic patterns, S-turns, or any other pattern you wish to create. Panoramic projection can be superimposed easily over these ground reference patterns by the flip of a switch

## REALISTIC GROUND TRAINING

VISTA s are the only general aviation-level trainers offering the total realism of visual flight simulation. Panoramic projection adds an exciting new dimension to student training not available in any other comparably-priced equipment. Attitude changes are "seen out the window", just as they would be in the aircraft. Panel instruments and visual horizon automatically show all the effects of rudder, elevator and aileron movements. There's even realistic engine sound which responds smoothly and accurately to throttle changes.

## \*\*IFR (RADIO NAVIGATION)

All Flightmatic Trainers have a unique, airplane-shaped Position Light to show the student what's happening as he intercepts, tracks, holds and maneuvers. The Position Light appears on a plotting board above the instrument panel and shows the exact position and heading visualization required for instrument flight. An IFR film strip can be projected to simulate IFR environment. A complete package of avionics permits teaching and practice of virtually every type of instrument approach and procedure. A plotting board monitors the student's progress via an automatic inked stylus. This map display becomes a permanent part of the student's progress record.

*\*\*CO-NAV option available.*

## SAFER, MORE EFFECTIVE

VISTA Flight simulators provide a ground training atmosphere geared as closely as possible to the true flight experience. Your students learn on a VISTA, then confidently advance to flight lessons in the aircraft with the same panel configuration and controls. The instruments they use, what they see and feel . . . bank, power, slip and skids . . . are all familiar. The result, rapid progress by the student toward a safe solo flight and eventual certification. All models incorporate provisions for safe emergency procedures training.

## APPLICATIONS AND TEACHING CAPABILITY

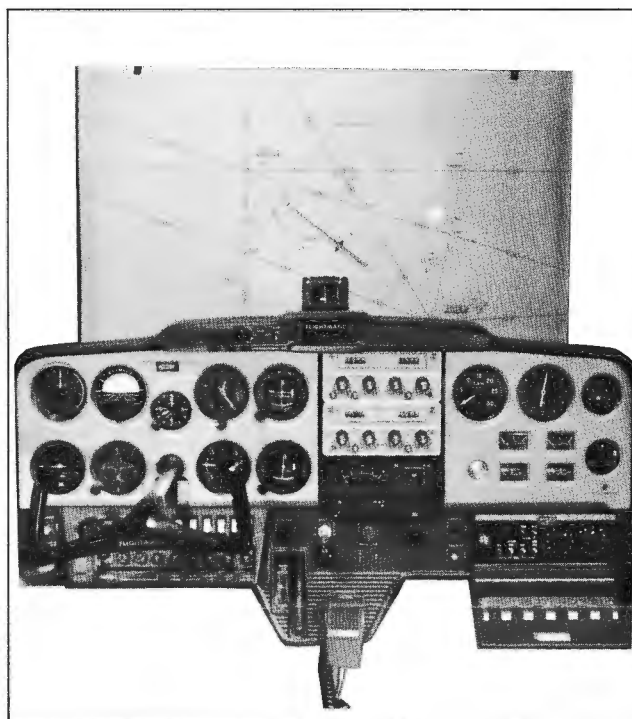
**VFR**  
Instrument &  
Control Functions  
Airplane Familiarization  
Take-Offs  
Landings  
Straight & Level  
Normal Turns  
Steep Turns  
Climbs  
Glides  
Slow Flight  
Slips  
Stalls & Accelerated  
Stalls  
Attitude Flight  
Flap Effects  
Partial Panel  
Solo Practice  
Flight Path  
Recorder  
Projected Attitude  
(VFR, IFR, Night)

**GROUND  
REFERENCE**  
Wind Effect  
Crab Angles  
Traffic Patterns  
Rectangular Patterns  
Eights On Pylons  
Chandelles  
"S" Turns Across  
Road  
Turn-Around-A-Point  
Forced Landings  
Touch-N-Go

Solo Practice  
Flight Path  
Recorder  
Projected Attitude  
(VFR, IFR, Night)

**IFR**  
Attitude Instrument  
Flight  
Communications  
ATC Procedures  
VOR  
VORTAC  
ADF (LOM)  
MARKER BEACONS  
ILS  
LOCALIZER  
DME

Solo Practice  
Flight Path  
Recorder  
Projected Attitude  
(VFR, IFR, Night)



### EQUIPMENT SPECIFICATIONS

CHARACTERISTIC	SPECIFICATIONS
Power Requirements	115V, 50—60 Hz, single phase, 650 watts
Overall Size*	59" L x 40" W x 62" H
Weight, Lbs.	415
Crated Size	64" L x 45" W x 67 1/2" H
Crated Weight, Lbs.	555
Operating Temperature	—10° C to 50° C
Storage Temperature	—25° C to 70° C
Humidity Range	0 to 90% relative humidity at 32° C
Control Yoke Travel	Pitch Axis: 5 1/2", Roll Axis: 60° L & R
Attitude-Gyro Limits	Pitch: ±15° Bank: 60° L & R
Attitude Display Limits	Pitch: ±15° Bank: 60° L & R, Turn Rate:
Directional-Gyro Turn Rate	8° /sec. max.
Altimeter	0—10,000 Feet, 2—pointer, 1,500 fpm max. rate
Navigation Chart Area	600 sq. miles, 1 inch = 1 nautical mile**
Wind Direction & Velocity	Varied through 360° .0 to 40 knots
NAVAID Sensitivity	VOR: ±10° F.S., C.D.I., LOC: ±2.5° F.S., G/S: ±50 ft. 2-dot deflection.

*\*Unit disassembles for easy installation through standard doors*

### — WARRANTY —

VISTA Flight Trainers are guaranteed by Flightmatic, Incorporated, against defects in materials and workmanship. Parts and replacement service will be supplied at no charge for a period of ninety (90) days from date of delivery. All parts are fully guaranteed for a period of two (2) years from date of delivery. Guarantees do not apply to equipment improperly handled or operated in excess of specified limits.